

POWERED BY **Dialog****Cleaning heat exchanger tubes - by means of manipulator which directs jets of water into spaces between tubes****Patent Assignee:** KRAFTWERK UNION AG**Inventors:** FORSTER J; KAETSCHER E; STOSS J; WEBER J; WEBER R; ZOEBERLEIN D**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
EP 84867	A	19830803	EP 83100498	A	19830120	198332	B
DE 3202248	A	19830804	DE 3301536	A	19830119	198332	
WO 8302657	A	19830804				198332	
BR 8305423	A	19831227				198408	
JP 59500065	W	19840112	JP 83500605	A	19830120	198408	
DE 3301536	A	19840719				198430	
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ES 8501112	A	19850201				198513	
EP 84867	B	19850619				198525	
DE 3360268	G	19850725				198531	
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US 4572284	A	19860225	US 83460859	A	19830125	198611	
CA 1213479	A	19861104				198649	

**Priority Applications (Number Kind Date):** DE 3301536 A ( 19830119); DE 3202248 A ( 19820125)**Cited Patents:** FR 2352269; FR 2445487; FR 2487043; US 4018345**Patent Details**

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**Abstract:**

EP 84867 A

The heat exchanger of the steam generator of a nuclear power plant has its tubes arranged in two banks, separated by a diametral passageway. This passageway is accessible from handholes in the heat exchanger housing through which a manipulator is inserted.

This manipulator is designed to move with a stepwise motion through the passage way by means of devices which grip the tubes. The manipulator has a spray head fitted with nozzles so arranged that the jets of water are aligned with the spaces between the tubes to facilitate the removal of accumulated sludge.

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